

JASMIN SHAFARIN

Job Title-Laboratory Technician

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## PROFESSIONAL

## OBJECTIVE

To associate myself with an organization that provides me an opportunity to show my skills, improve my knowledge and to be a part of the team that works dynamically towards the growth of the organization and prove that I am an asset.

## EDUCATIONAL

## QUALIFICATION

**Masters in biotechnology, Monomaniam sundaranar university, Tamil Nadu, India. (2008)**

**Diploma in Medical Bio chemistry, University of Kerala, India. (2005)**

**Bachelor in Botany with Bio technology, University of Kerala, India. (2004)**

## TECHNIQUES

## EXPERTIZED

### **MOLECULAR BIOLOGY**

Protein extraction from cells and tissues, protein quantification, western blotting, Isolation and purification of DNA, Agarose gel electrophoresis, RNA extraction from cells, Real time PCR.

### **PROTEOMICS**

Flow cytometry staining (Cell surface marker staining intracellular and extracellular markers, calcein staining, Annexin v staining, propidium iodide

### **IMMUNOLOGY**

Immunofluorescence staining on cells and paraffin embedded tissues (single and double staining), immune-histochemistry , ELISA (oxidative stress markers, Glutathione assay, super oxide dismutase assay, Nitric oxide assay).

### **MICROBIOLOGY**

Bacterial culturing, maintaining cultures, streaking on agar plates ,broth culturing, sample preparation for microscopy, DNA,RNA and protein extraction ,Competent cell preparation, yeast culturing .

### **BIOCHEMISTRY**

Quantification of Carbohydrates and proteins, Estimation of enzyme by glutathione, cytochrome c, aconitase, lipid per oxidation assays.

### **CELL BIOLOGY**

Culturing attached cells and suspension cells, Maintenance and preservation of cells, treating drugs for different doses, cell viability assay, wound healing assay, Fixation of cells on coverslip for immunofluorescence staining, senescence staining, Mitochondrial and lysosome staining, membrane potential staining

### **ELECTRON MICROSCOPY**

Processing samples (cells and tissues) for scanning and transmission microscopy, preparing Resins, block preparation, trimming, Sectioning, staining, immuno gold staining and fluorescent microscope.

### **HISTOLOGY AND IMMUNOHISTOCHEMISTRY**

Sample collection , preparing different fixatives, processing tissues, paraffin embedding, microtome sectioning, immunofluorescence staining both single and double staining, Avidin biotin complex staining, H & E staining and different types of staining.

### **RESEARCH EXPERIENCE 7 +years**

#### **LABORATORY TECHNICIAN**

Working as Laboratory technician in Sharjah institute for medical research, university of Sharjah from MAY 13 2015 to present.

#### **RESEARCH ASSISTANT**

Worked as Research assistant in Biochemistry department With Dr. Haider Raza of Faculty of Medicine and Health Science, UAE University from 2013 may to 2015 may.

#### **LABORATORY TECHNICAL ASSISTANT**

Worked as laboratory technical assistant from 2012 august to November 2012 under Dr. Murthy Srinivasulu, Associate professor at school of biology Indian institute of science education and research, Thiruvananthapuram, India

#### **RESEARCH ASSISTANT**

Research assistant in Department of Anatomy, Faculty of Medicine and Health Science, UAE University, UAE under the guidance of Professor Ernest Adeghate (April 2010 to August 2011)

**PROJECT TITLE- Effect of pancreatic beta cell transplantation on the metabolic parameters of diabetic rats.**

### **PAPER PUBLICATION**

- **Estrogen-induced hypomethylation and overexpression of YAP1 facilitate breast cancer cell growth and survival**☆Jibrán Sualeh Muhammada,b,\*; Maha Guimei c,d;Manju Nidagodu Jayakumar b; Jasmin Shafarinb;Aisha Saleh Janeehb; Rola AbuJabal b;Mohamed Ahmed Eladl a; Anu Vinod Ranadea;Amjad Ali b; Mawieh Hamadb,e,\*2020 November
- **Estrogen-induced epigenetic silencing of FTH1 and TFRC genes reduces liver cancer cell growth and survival.** Jibrán Sualeh Muhammad, Khuloud Bajbouj, Jasmin Shafarin & Mawieh Hamad (2020): Estrogen-induced epigenetic silencing of FTH1 and TFRC genes reduces liver cancer cell growth and survival, Epigenetics, DOI: 10.1080/15592294.2020.1770917
- Article **Micromeria fruticosa Induces Cell Cycle Arrest and Apoptosis in Breast and Colorectal Cancer Cells.**Waseem El-Huneidi 1, Naglaa G. Shehab 2,3, Khuloud Bajbouj 1, Arya Vinod 4, Ahmed El-Serafi 5,6, Jasmin Shafarin 4, Lara J. Bou Malhab 4, Wael M. Abdel-Rahman 4,7 and Eman Abu-Gharbieh 8,\*
- **Estrogen signaling differentially alters iron metabolism in monocytes in an Interleukin 6-dependent manner** Khuloud Bajbouja, c,1, Jasmin Shafarina,1, Jibrán Sualeh Muhammada,c, Amjad Alia, Hema Unnikannana, Betoul Suleimanb, Nour Al-Jabic, Kiran Menona, Mawieh Hamada,b,\*
- **Estrogen-induced disruption of intracellular iron metabolism leads to oxidative stress, membrane damage, and cell cycle arrest in MCF-7 cells** Khuloud Bajbouj1, Jasmin Shafarin1, Maher Y Abdalla2, Iman M Ahmad3 and Mawieh Hamad1,4
- **Estrogen-dependent disruption of intracellular iron metabolism augments the cytotoxic effects of doxorubicin in select breast and ovarian cancer cells.** Khuloud Bajbouj,<sup>1</sup> Jasmin Shafarin,<sup>1</sup> Mawieh Hamad<sup>1,2,1</sup>Sharjah Institute for Medical Research, Sharjah, United Arab Emirates; Department of Medical Laboratory Sciences, University of Sharjah, Sharjah, United Arab Emirates. Accepted for publication(16 april 2019) published date(23 may 2019)
- **Elevated Levels of Estrogen Suppress Hpcidin Synthesis and Enhance Serum Iron Availability in Premenopausal Women. February 2018,** Experimental and clinical endocrinology & diabetes.DOI 10.1055/S-0043-124077.khuloud bajbouj, Jasmin shafarin ,Hilda allam
- **High dose deferoxamine treatment disrupts intracellular iron homeostasis, reduces growth and induces apoptosis in metastatic and non-metastatic breast cancer cell line.** Khuloud Bajbouj, PhD1, Jasmin Shafarin, MSc1, and Mawieh Hamad, PhD1, 2.Tchnology in cancer research and treatment.volume 17:1-11 DOI: 10.1177/1533033818764470. **January 26,2018**

- **Estrogen induced disruption of intracellular iron metabolism leads to oxidative stress; membrane damage and cell cycle arrest in MCF 7 CELLS.** Khuloud Bajbouj<sup>1</sup>, Jasmin Shafarin<sup>1</sup>, Maher Y Abdalla<sup>2</sup>, Iman M Ahmad<sup>3</sup> and Mawieh Hamad<sup>1</sup>, Tumor biology: DOI: 10.1177/1010428317726184, **October 2017.**
- **Estrogen dependent downregulation of hepcidin synthesis induces intracellular iron efflux in cancer cells in vitro.** Jasmin Shafarin, khuloud bajbouj, Ahmed El Sherafy, Divyasree Sandeep, Mawieh Hamad. Biology and medicine ; DOI; 10.4172/0974-8369.1000356, PUBLISHED – **November 07, 2016**
- Exercise induced alterations in pancreatic oxidative stress and mitochondrial function in Type 2 diabetic Goto-Kakizaki rats Haider Raza, Annie John, Jasmin Shafarin, Frank C. Howarth  
Published: **19 april 2016**, DOI; 10.14814/PHY2.12751
- Potentiation of LPS induced apoptotic cell death in human hepatoma HepG2 cells by Aspirin via ROS and Mitochondrial Dysfunction :protection by N - acetyl cysteine. Haider Raza, Annie John , Jasmin Shafarin  
Published: **July 21, 2016** \*<http://dx.doi.org/10.1371/journal.pone.0159750>
- Enhanced Glucose Tolerance And Pancreatic Beta Cell Function By Low Dose Aspirin In Hyperglycemic Insulin Resistance Type 2 Diabetic Goto Kakizaki Rats. Layla Amiri , Annie John, Jasmin Shafarin, Haider Raza. Cellular physiology and biochemistry 36(5):1939-1950. **July 2015**. DOI; 10.1159/000430162
- NAC attenuates LPS-induced toxicity in aspirin-sensitized mouse macrophages via suppression of oxidative stress and mitochondrial dysfunction. Published: **July 30, 2014**, DOI: 10.1371/journal.pone.0103379
- Sensitization of murine macrophages and human hepatoma cells to lipopolysaccharide-induced oxidative and nitrosative stress by aspirin. Journal Compilation © 2014 Sheikh Hamdan Bin Rashid Al Maktoum Award for Medical Sciences. Publication date (print and electronic): **August 2014**

## REFERENCES

### **Dr. Mawieh Abdel Haq**

professor

College of medicine and health science

University of Sharjah

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### **Dr. Haider raza**

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### **Dr. Earnest adeghate**

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### **Dr.S .Murthy sreenivasula**

Associate professor and co-ordinator of biology department

Indian institute of science education and research, School of biology, Thiruvananthapuram, kerela, india

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## DECLARATION

I hereby declare that the above statements are true to the best of my knowledge and belief.

**Jasmin Shafarin**